

WHAT IS CLAIMED IS:

- 1 1. A system for facilitating data management on a secure token,
2 comprising:
 - 3 a client having a plurality of applications residing thereon; and
4 a secure token having a storage architecture, wherein the storage architecture
5 includes:
 - 6 a directory and one or more attributes associated with the directory,
7 wherein the one or more attributes associated with the directory are used to control access to
8 the directory by the plurality of applications,
 - 9 one or more cell groups under the directory, each cell group having
10 one or more associated attributes, wherein the one or more attributes associated with a cell
11 group are used to control access to that cell group by the plurality of applications, and
 - 12 one or more cells under each cell group, each cell having one or more
13 associated attributes, wherein the one or more attributes associated with a cell are used to
14 control access to that cell by the plurality of applications.
 - 1 2. The system of claim 1 wherein the one or more attributes associated
2 with the directory permit access to the directory by one application and deny access to the
3 directory to another application.
 - 1 3. The system of claim 1 wherein the one or more attributes associated
2 with the cell group permit access to that cell group by one application and deny access to that
3 cell group to another application.
 - 1 4. The system of claim 1 wherein the one or more attributes associated
2 with the cell permit access to that cell by one application and deny access to that cell to
3 another application.
 - 1 5. The system of claim 1 wherein one or more additional cell groups are
2 added to the directory subsequent to issuance of the secure token to a token holder.
 - 1 6. The system of claim 1 wherein ownership of one of the one or more
2 cell groups is determined subsequent to issuance of the secure token to a token holder.

1 7. The system of claim 1 wherein ownership of one or more
2 cell groups is modified subsequent to issuance of the secure token to a token holder.

1 8. The system of claim 1 wherein one or more additional cells are added
2 to a cell group subsequent to issuance of the secure token to a token holder.

1 9. The system of claim 1 wherein the one or more attributes associated
2 with the directory are modified in terms of permitting or denying access to the directory by
3 the plurality of applications.

1 10. The system of claim 1 wherein the one or more attributes associated
2 with a cell group are modified in terms of permitting or denying access to that cell group by
3 the plurality of applications.

1 11. The system of claim 1 wherein the one or more attributes associated
2 with a cell are modified in terms of permitting or denying access to that cell by the plurality
3 of applications.

1 12. The system of claim 1 wherein the one or more attributes associated
2 with a cell further control operations on contents of that cell by the plurality of applications.

1 13. The system of claim 12 wherein the one or more attributes associated
2 with the cell permit a first set of operations on the contents of that cell by a first application;
3 wherein the one or more attributes associated with the cell permit a second set
4 of operations on the contents of that cell by a second application; and
5 wherein the first set of operations is different from the second set of
6 operations.

1 14. The system of claim 1 wherein the one or more attributes associated
2 with the directory permit a first application to access the directory after a first access
3 condition is satisfied;
4 wherein the one or more attributes associated with the directory permit a
5 second application to access the directory after a second access condition is satisfied; and
6 wherein the first access condition is different from the second access
7 condition.

1 15. The system of claim 1 wherein the one or more attributes associated
2 with the cell group permit a first application to access that cell group after a first access
3 condition is satisfied;

4 wherein the one or more attributes associated with the cell group permit a
5 second application to access that cell group after a second access condition is satisfied; and
6 wherein the first access condition is different from the second access
7 condition.

1 16. The system of claim 1 wherein the one or more attributes associated
2 with the cell permit a first application to access that cell after a first access condition is
3 satisfied;

4 wherein the one or more attributes associated with the cell permit a second
5 application to access that cell after a second access condition is satisfied; and
6 wherein the first access condition is different from the second access
7 condition.

1 17. The system of claim 1 wherein the secure token is a smart card.

1 18. The system of claim 17 wherein the smart card is an open platform
2 smart card.

1 19. The system of claim 17 wherein the smart card is a static or native
2 smart card.

1 20. A secure token comprising:
2 a directory and one or more attributes associated with the directory,
3 wherein the one or more attributes associated with the directory are used to control access to
4 the directory by a plurality of applications,
5 one or more cell groups under the directory, each cell group having
6 one or more associated attributes, wherein the one or more attributes associated with a cell
7 group are used to control access to that cell group by the plurality of applications, and
8 one or more cells under each cell group, each cell having one or more
9 associated attributes, wherein the one or more attributes associated with a cell are used to
10 control access to that cell by the plurality of applications.

1 21. The secure token of claim 20 wherein the one or more attributes
2 associated with the directory permit access to the directory by one application and deny
3 access to the directory to another application.

1 22. The secure token of claim 20 wherein the one or more attributes
2 associated with the cell group permit access to that cell group by one application and deny
3 access to that cell group to another application.

1 23. The secure token of claim 20 wherein the one or more attributes
2 associated with the cell permit access to that cell by one application and deny access to that
3 cell to another application.

1 24. The secure token of claim 20 wherein one or more additional cell
2 groups are added to the directory subsequent to issuance of the secure token to a token
3 holder.

1 25. The secure token of claim 20 wherein ownership of one of the one or
2 more cell groups is determined subsequent to issuance of the secure token to a token holder.

1 26. The secure token of claim 20 wherein ownership of one of the one or
2 more cell groups is modified subsequent to issuance of the secure token to a token holder.

1 27. The secure token of claim 20 wherein one or more additional cells are
2 added to a cell group subsequent to issuance of the secure token to a token holder.

1 28. The secure token of claim 20 wherein the one or more attributes
2 associated with the directory are modified in terms of permitting or denying access to the
3 directory by the plurality of applications.

1 29. The secure token of claim 20 wherein the one or more attributes
2 associated with a cell group are modified in terms of permitting or denying access to that cell
3 group by the plurality of applications.

1 30. The secure token of claim 20 wherein the one or more attributes
2 associated with a cell are modified in terms of permitting or denying access to that cell by the
3 plurality of applications.

1 31. The secure token of claim 20 wherein the one or more attributes
2 associated with a cell further control operations on contents of that cell by the plurality of
3 applications.

1 32. The secure token of claim 31 wherein the one or more attributes
2 associated with the cell permit a first set of operations on the contents of that cell by a first
3 application;
4 wherein the one or more attributes associated with the cell permit a second set
5 of operations on the contents of that cell by a second application; and
6 wherein the first set of operations is different from the second set of
7 operations.

1 33. The secure token of claim 20 wherein the one or more attributes
2 associated with the directory permit a first application to access the directory after a first
3 access condition is satisfied;
4 wherein the one or more attributes associated with the directory permit a
5 second application to access the directory after a second access condition is satisfied; and
6 wherein the first access condition is different from the second access
7 condition.

1 34. The secure token of claim 20 wherein the one or more attributes
2 associated with the cell group permit a first application to access that cell group after a first
3 access condition is satisfied;
4 wherein the one or more attributes associated with the cell group permit a
5 second application to access that cell group after a second access condition is satisfied; and
6 wherein the first access condition is different from the second access
7 condition.

1 35. The secure token of claim 20 wherein the one or more attributes
2 associated with the cell permit a first application to access that cell after a first access
3 condition is satisfied;
4 wherein the one or more attributes associated with the cell permit a second
5 application to access that cell after a second access condition is satisfied; and
6 wherein the first access condition is different from the second access
7 condition.

1 36. The secure token of claim 20 wherein the secure token is a smart card.

1 37. The secure token of claim 36 wherein the smart card is an open

2 platform smart card.

1 38. The secure token of claim 36 wherein the smart card is a static or

2 native smart card.

1 39. A method for facilitating data management on a secure token,

2 comprising:

3 providing a directory and one or more attributes associated with the
4 directory, wherein the one or more attributes associated with the directory are used to control
5 access to the directory by a plurality of applications,

6 providing one or more cell groups under the directory, each cell group
7 having one or more associated attributes, wherein the one or more attributes associated with a
8 cell group are used to control access to that cell group by the plurality of applications, and

9 providing one or more cells under each cell group, each cell having
10 one or more associated attributes, wherein the one or more attributes associated with a cell
11 are used to control access to that cell by the plurality of applications.

1 40. The method of claim 39 wherein the one or more attributes associated

2 with the directory permit access to the directory by one application and deny access to the

3 directory to another application.

1 41. The method of claim 39 wherein the one or more attributes associated

2 with the cell group permit access to that cell group by one application and deny access to that

3 cell group to another application.

1 42. The method of claim 39 wherein the one or more attributes associated

2 with the cell permit access to that cell by one application and deny access to that cell to

3 another application.

1 43. The method of claim 39 further comprising:

2 adding one or more additional cell groups to the directory subsequent to

3 issuance of the secure token to a token holder.

1 44. The method of claim 39 further comprising:
2 determining ownership of one of the one or more cell groups subsequent to
3 issuance of the secure token to a token holder.

1 45. The method of claim 39 further comprising:
2 modifying ownership of one of the one or more cell groups subsequent to
3 issuance of the secure token to a token holder.

1 46. The method of claim 39 further comprising:
2 adding one or more additional cells to a cell group subsequent to issuance of
3 the secure token to a token holder.

1 47. The method of claim 39 further comprising:
2 modifying the one or more attributes associated with the directory in terms of
3 permitting or denying access to the directory by the plurality of applications.

1 48. The method of claim 39 further comprising:
2 modifying the one or more attributes associated with a cell group in terms of
3 permitting or denying access to that cell group by the plurality of applications.

1 49. The method of claim 39 further comprising:
2 modifying the one or more attributes associated with a cell in terms of
3 permitting or denying access to that cell by the plurality of applications.

1 50. The method of claim 39 wherein the one or more attributes associated
2 with a cell further control operations on contents of that cell by the plurality of applications.

1 51. The method of claim 50 wherein the one or more attributes associated
2 with the cell permit a first set of operations on the contents of that cell by a first application;
3 wherein the one or more attributes associated with the cell permit a second set
4 of operations on the contents of that cell by a second application; and
5 wherein the first set of operations is different from the second set of
6 operations.

1 52. The method of claim 39 wherein the one or more attributes associated
2 with the directory permit a first application to access the directory after a first access
3 condition is satisfied;

4 wherein the one or more attributes associated with the directory permit a
5 second application to access the directory after a second access condition is satisfied; and
6 wherein the first access condition is different from the second access
7 condition.

1 53. The method of claim 39 wherein the one or more attributes associated
2 with the cell group permit a first application to access that cell group after a first access
3 condition is satisfied;

4 wherein the one or more attributes associated with the cell group permit a
5 second application to access that cell group after a second access condition is satisfied; and
6 wherein the first access condition is different from the second access
7 condition.

1 54. The method of claim 39 wherein the one or more attributes associated
2 with the cell permit a first application to access that cell after a first access condition is
3 satisfied;

4 wherein the one or more attributes associated with the cell permit a second
5 application to access that cell after a second access condition is satisfied; and
6 wherein the first access condition is different from the second access
7 condition.

1 55. The method of claim 39 wherein the secure token is a smart card.

1 56. The method of claim 55 wherein the smart card is an open platform
2 smart card.

1 57. The method of claim 55 wherein the smart card is a static or native
2 smart card.